

Fig.1 (a)

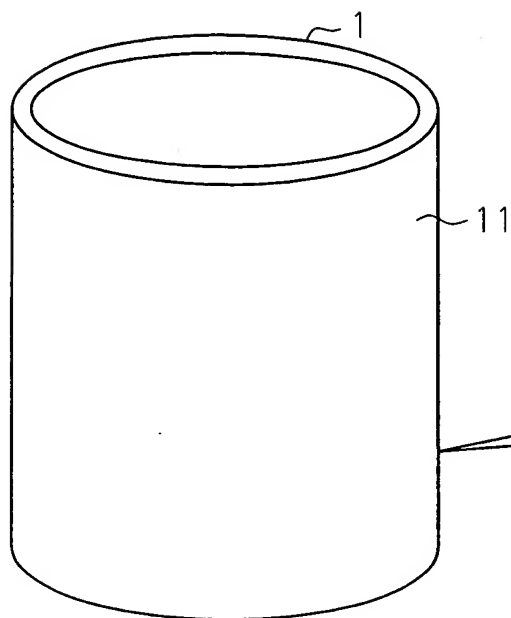


Fig.1 (b)

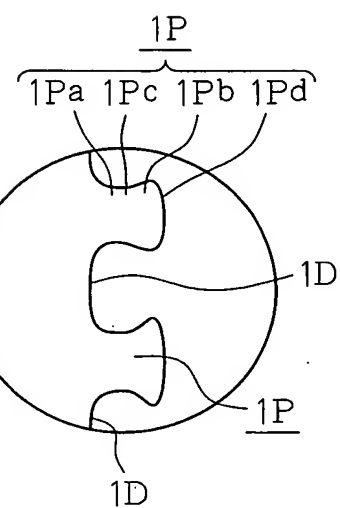


Fig.1 (c)

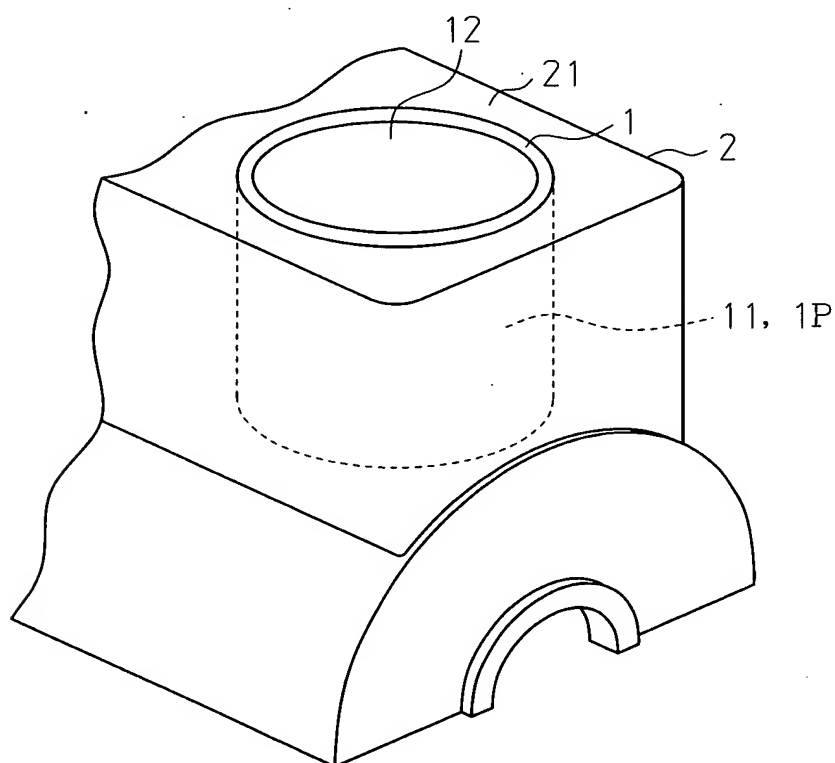


Fig.2

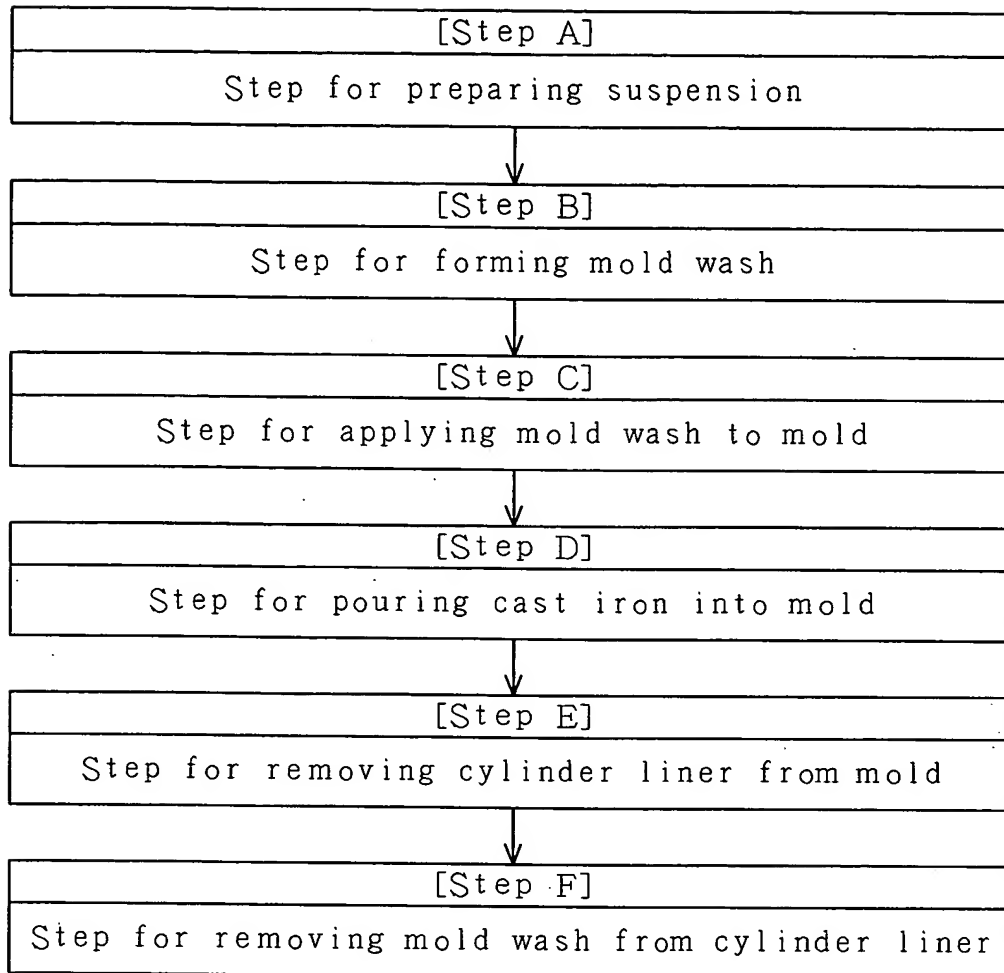


Fig.3

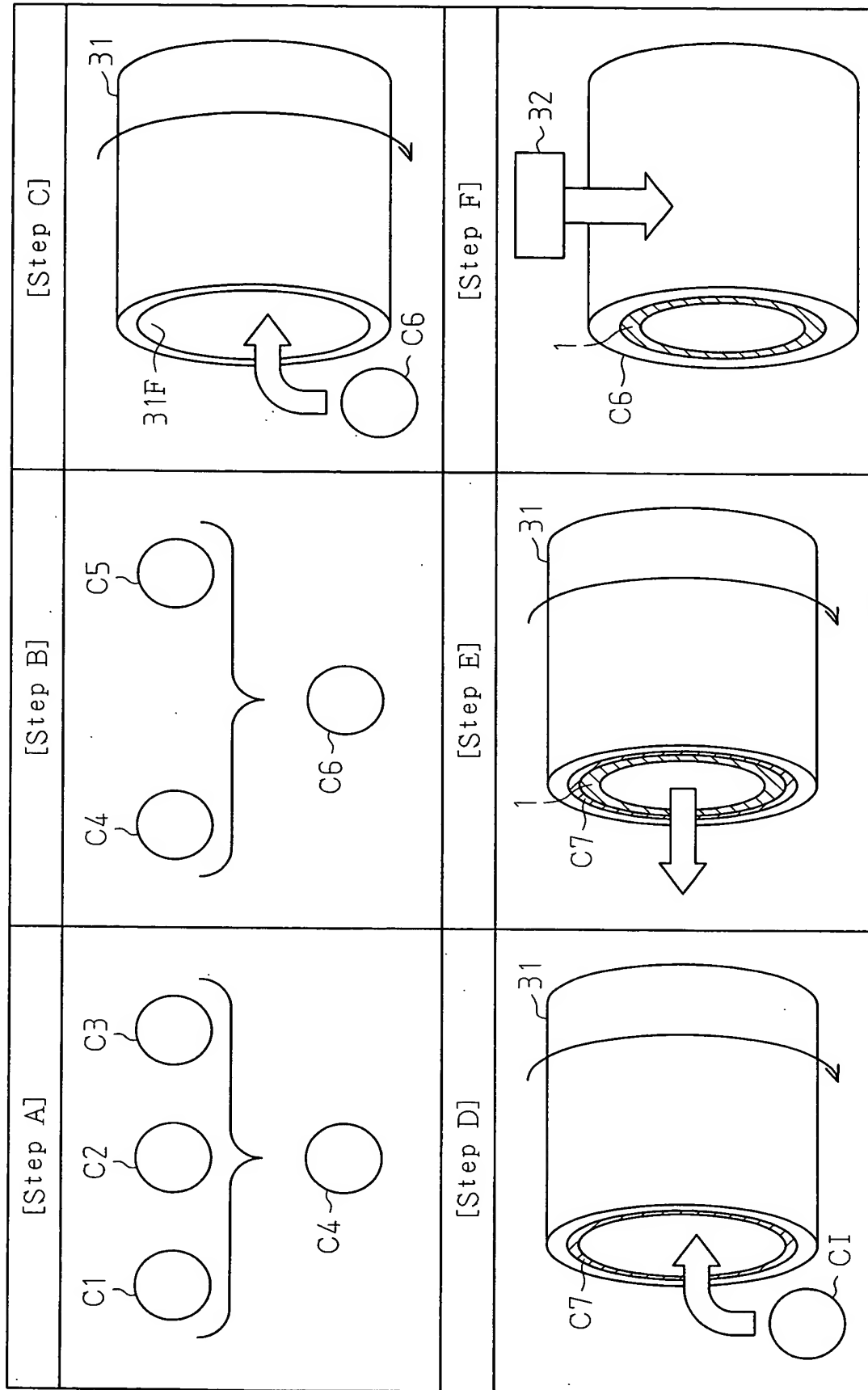


Fig.4

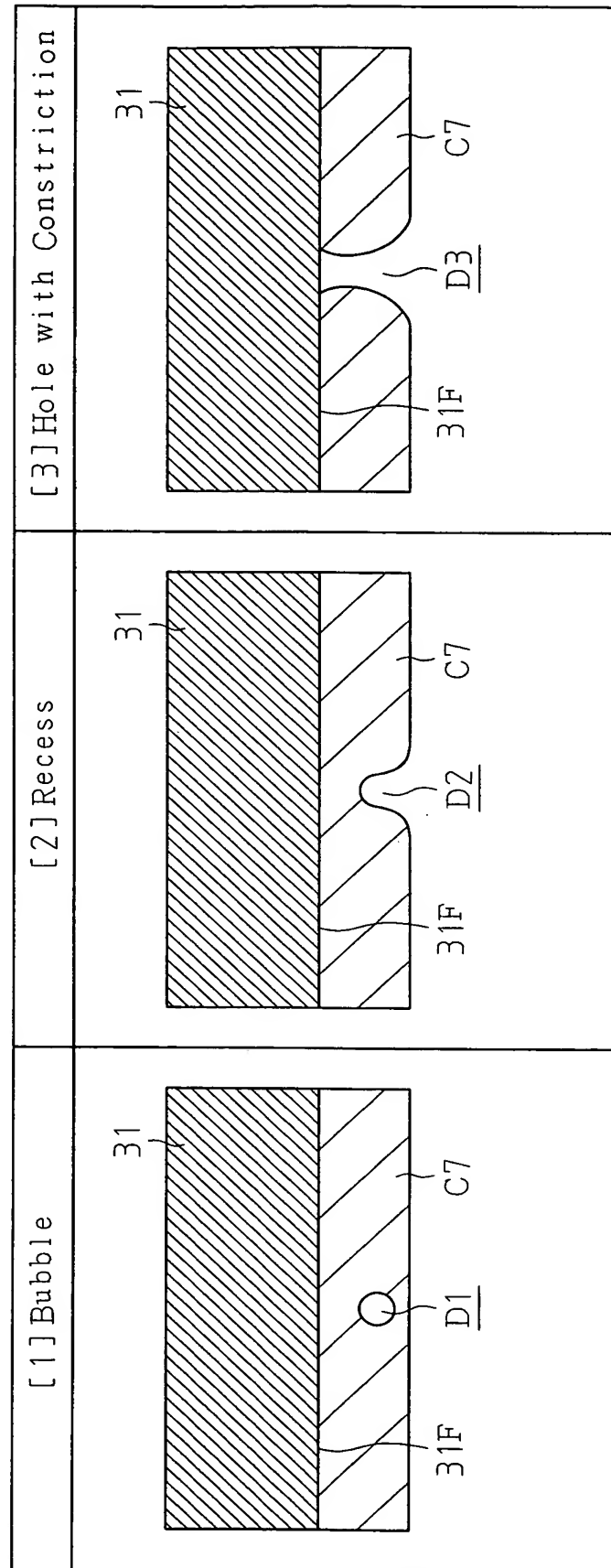


Fig.5 (a)

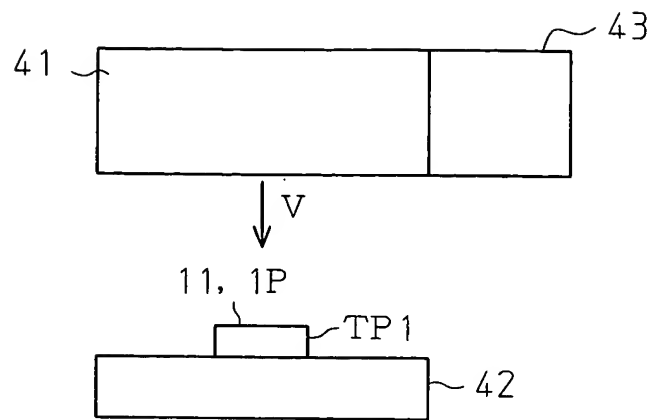


Fig.5 (b)

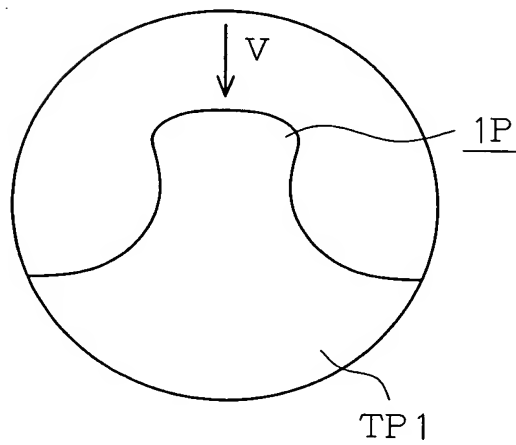


Fig.6 (a)

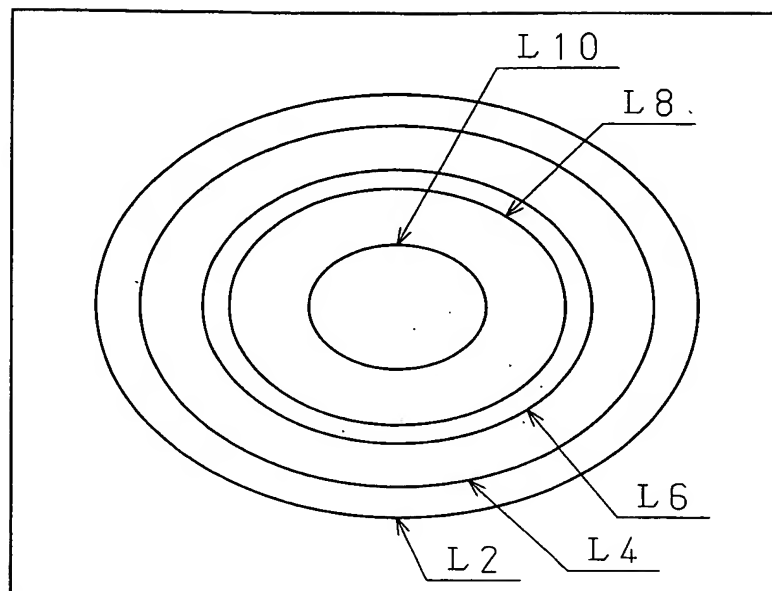


Fig.6 (b)

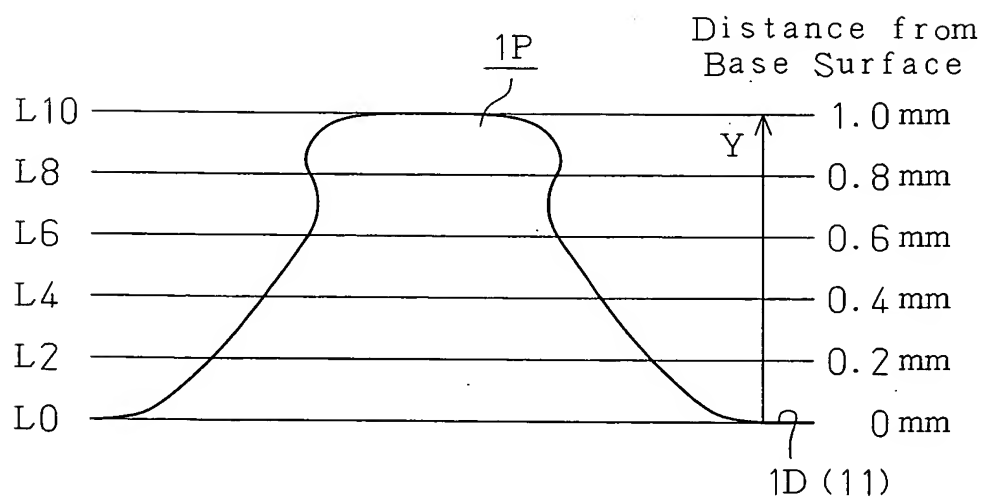


Fig.7 (a)

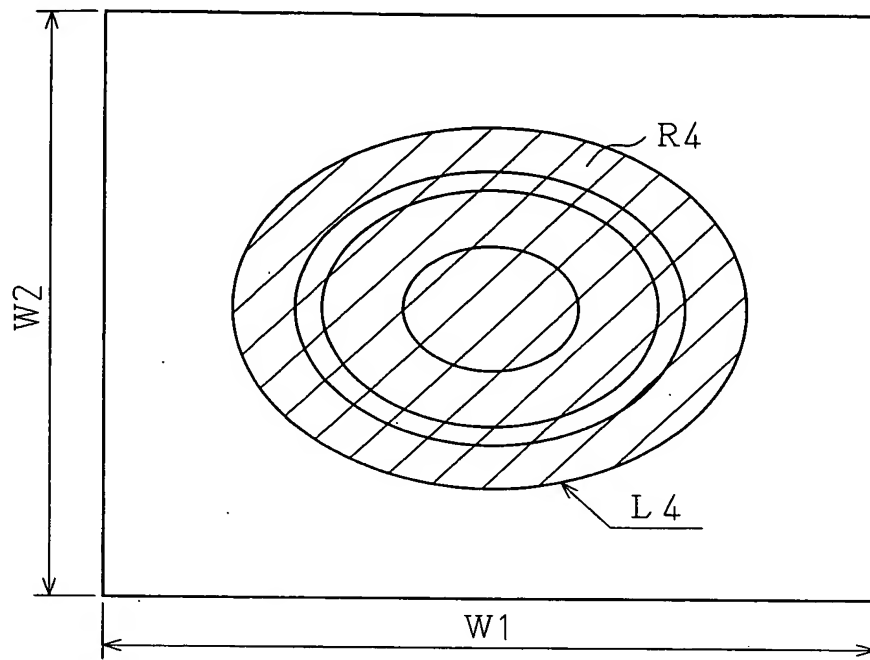


Fig.7 (b)

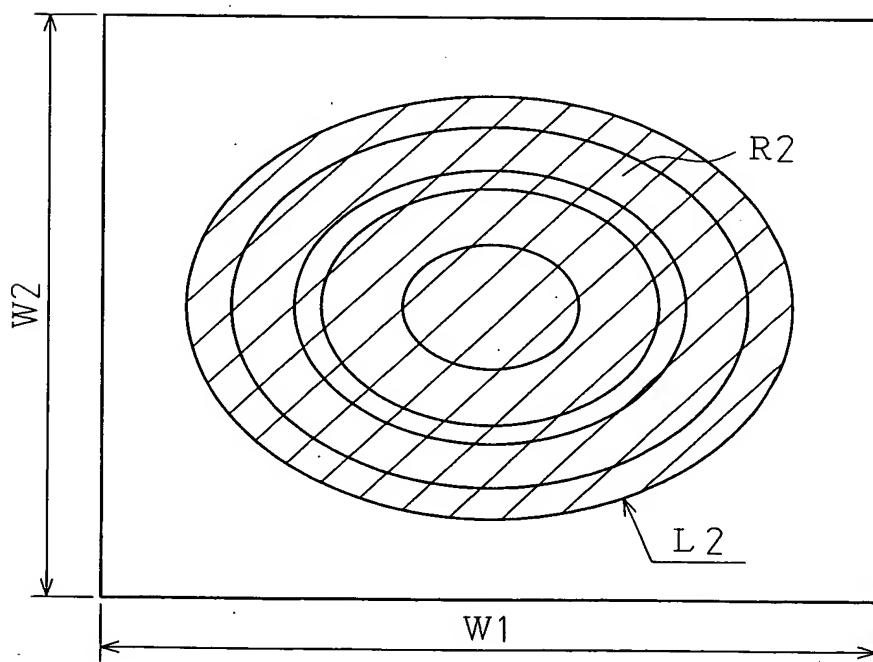


Fig.8

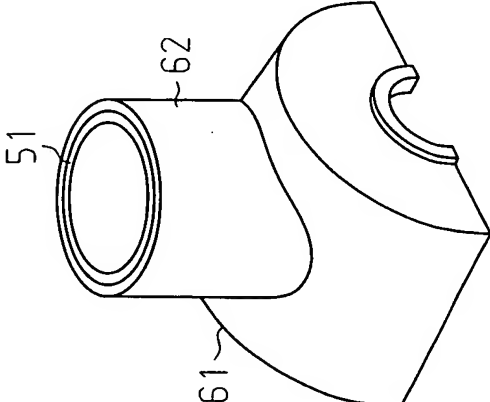
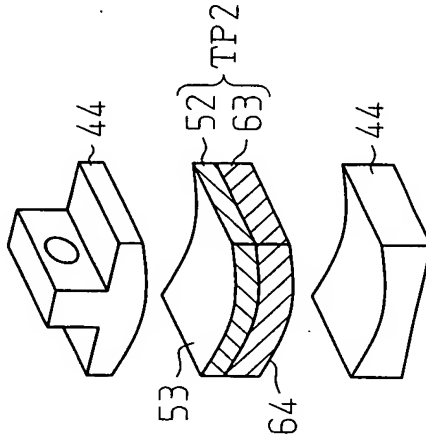
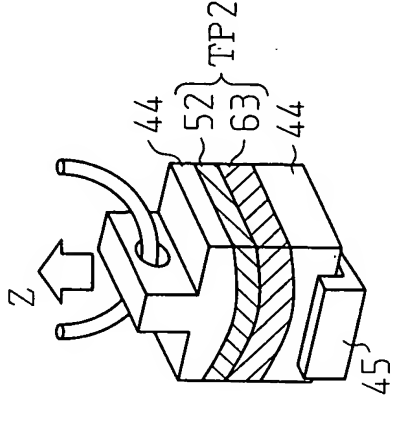
<p>[1]Manufacture of Cylinder Block for Testing</p>		<p>[2]Formation of Test Piece</p>		<p>[3]Mesurement of Bonding Strength through Tensile Test</p>	
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Fig.9

Conditions for Die-Casting		
Aluminum Material	ADC 12	
Casting Pressure	55	[MPa]
Casting Speed	1.7	[m/s]
Molten Metal Temperature	670	[°C]
Cylinder Thickness (Aluminum Material)	4.0	[mm]

Fig.10

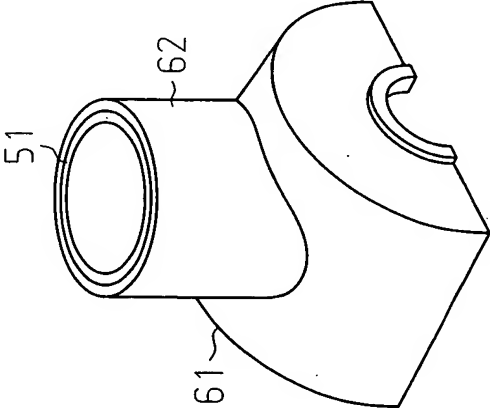
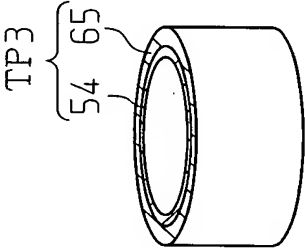
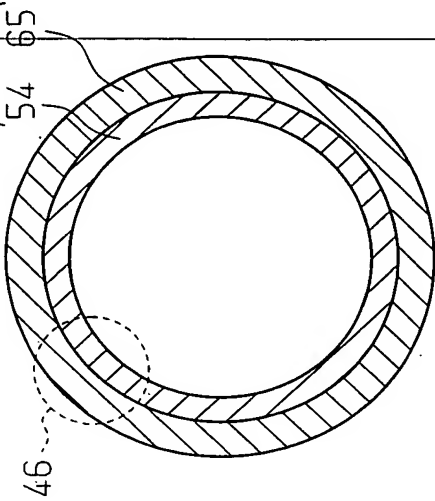
[1]Manufacture of Cylinder Block for Testing	 <p>Diagram showing a cylinder block 51 with a curved surface 61 and a top edge 62.</p>	[2]Formation of Test Piece	 <p>Diagram showing a test piece TP3 with a top edge 54 and a bottom edge 65.</p>	[3]Measurement of Voidage through Image Processing	 <p>Diagram showing a test piece TP3 with a top edge 54, a bottom edge 65, and a dashed line 46.</p>
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Fig.11

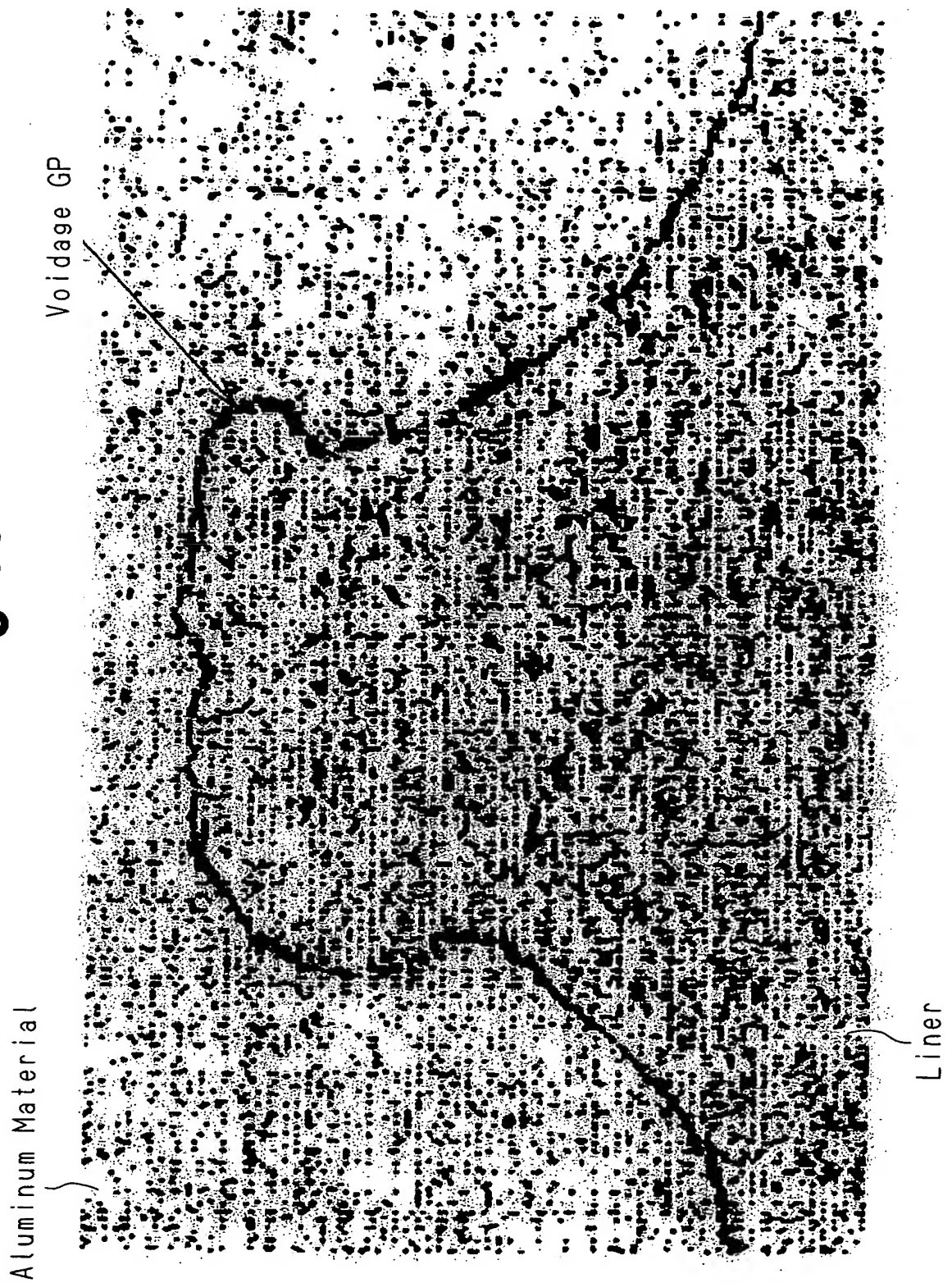


Fig.1 2

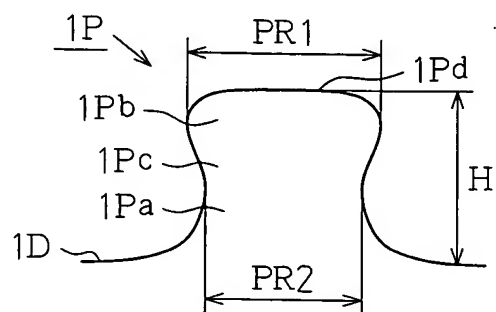


Fig.13

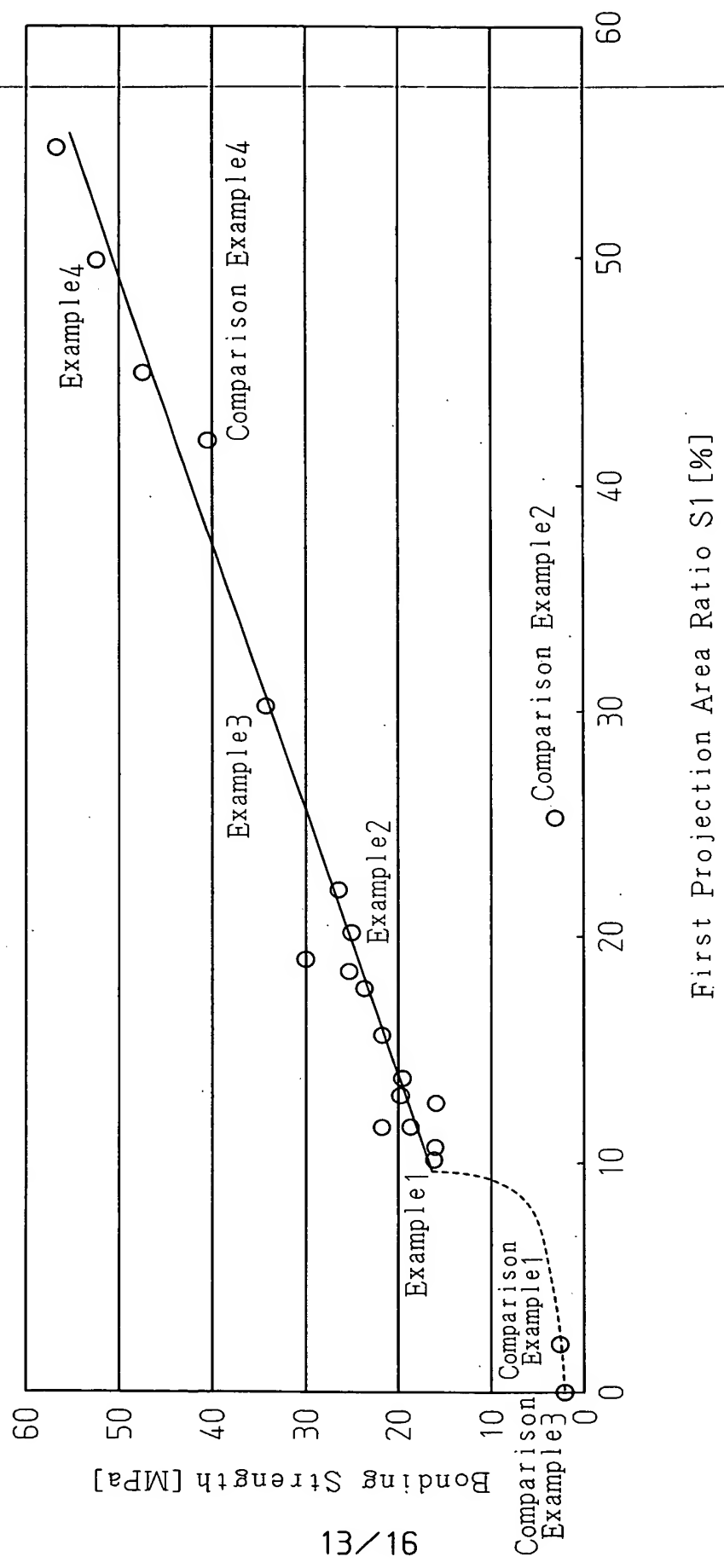


Fig.14

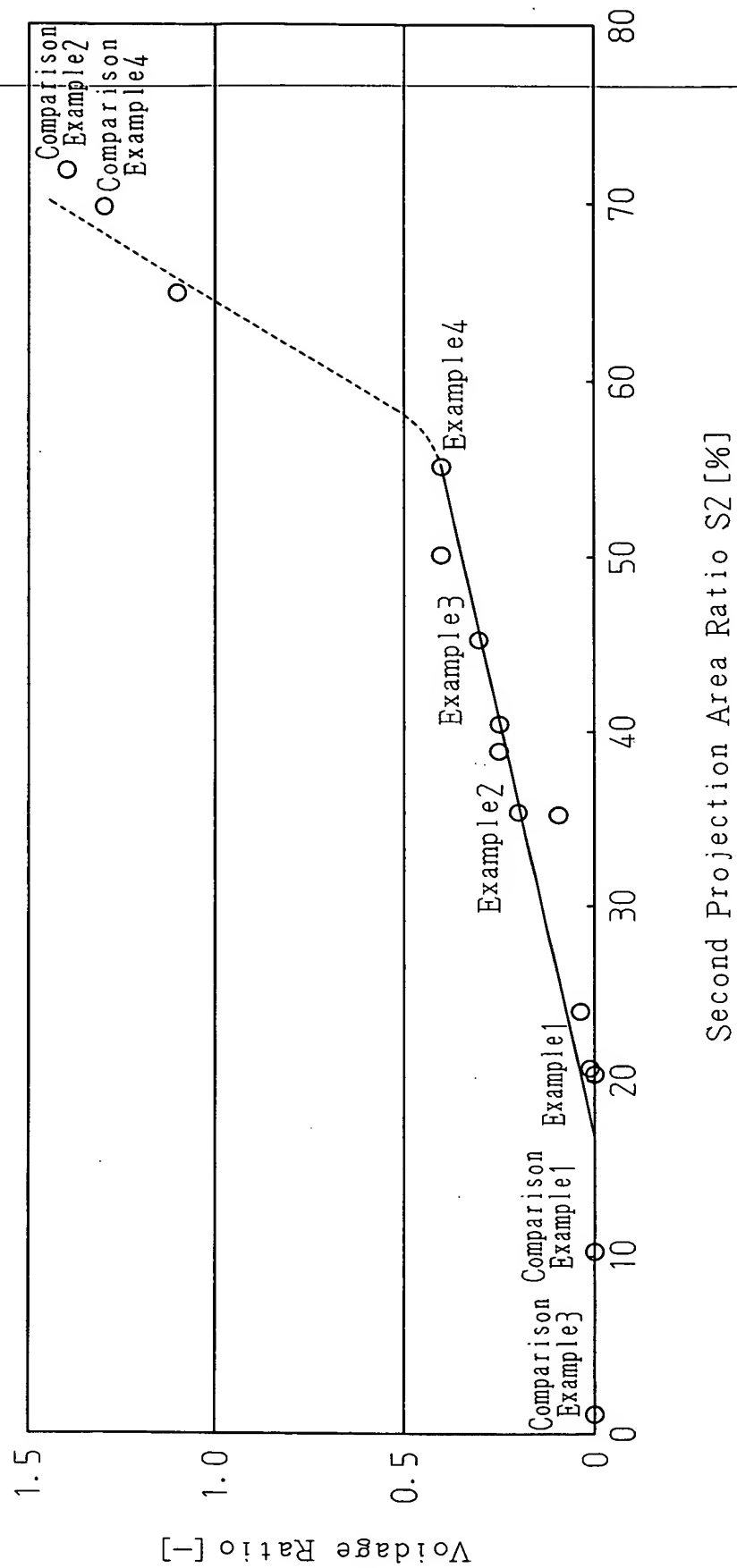


Fig.15

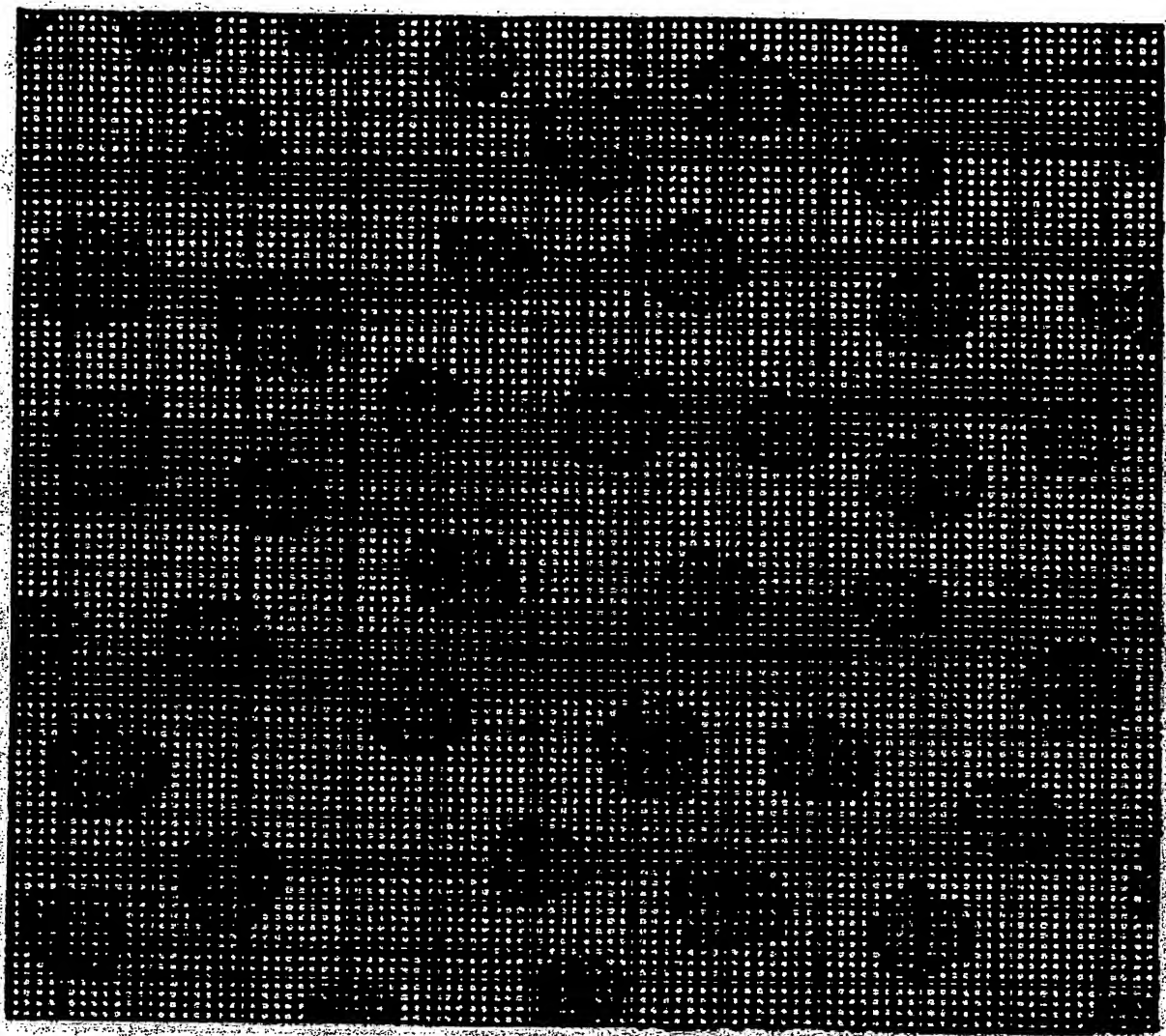


Fig.16

